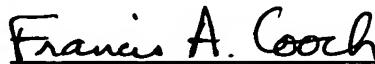


<small>FOR: PTO-1390 (Modified) (REV 11-2000)</small> <div style="text-align: center; margin-top: 10px;"> <b>U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE</b>  <b>TRANSMITTAL LETTER TO THE UNITED STATES</b>  <b>DESIGNATED/ELECTED OFFICE (DO/EO/US)</b>  <b>CONCERNING A FILING UNDER 35 U.S.C. 371</b> </div>		<b>ATTORNEY'S DOCKET NUMBER</b> <b>1595-DARPA</b>  <b>U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR</b> <b>10/069894</b>
<small>INTERNATIONAL APPLICATION NO.</small> <b>PCT/US01/16692</b>	<small>INTERNATIONAL FILING DATE</small> <b>23 May 2001</b>	<small>PRIORITY DATE CLAIMED</small> <b>June 1, 2000 and May 30, 2000</b>
<b>TITLE OF INVENTION</b> <b>PORTABLE TIME-OF-FLIGHT MASS SPECTROMETER SYSTEM</b>		
<b>APPLICANT(S) FOR DO/EO/US</b> <b>Michael P. McLoughlin, William R. Allmon, Charles W. Anderson, Micah A. Carlson, Daniel J. DeCicco, Nicholas H. Evancich, Wayne A. Bryden, Scott A. Ecelberger, James T. Velky</b>		
<p>Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:</p> <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.</li> <li>4. <input checked="" type="checkbox"/> The US has been elected by the expiration of 19 months from the priority date (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c) (2))             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input checked="" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).</li> <li>11. <input type="checkbox"/> A copy of the International Preliminary Examination Report (PCT/IPEA/409).</li> <li>12. <input type="checkbox"/> A copy of the International Search Report (PCT/ISA/210).</li> </ol> <p><b>Items 13 to 20 below concern document(s) or information included:</b></p> <ol style="list-style-type: none"> <li>13. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>14. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>15. <input type="checkbox"/> A <b>FIRST</b> preliminary amendment.</li> <li>16. <input type="checkbox"/> A <b>SECOND</b> or <b>SUBSEQUENT</b> preliminary amendment.</li> <li>17. <input type="checkbox"/> A substitute specification.</li> <li>18. <input type="checkbox"/> A change of power of attorney and/or address letter.</li> <li>19. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.</li> <li>20. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</li> <li>21. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> <li>22. <input checked="" type="checkbox"/> Certificate of Mailing by Express Mail</li> <li>23. <input type="checkbox"/> Other items or information:</li> </ol>		

U.S. APPLICATION NO. (IF KNOWN) SEE 37 CFR <b>107069894</b>	INTERNATIONAL APPLICATION NO. PCT/US01/ 16692	ATTORNEY'S DOCKET NUMBER <b>1595-DARPA</b>												
24. The following fees are submitted:		CALCULATIONS PTO USE ONLY												
<b>BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)) :</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO ..... <b>\$1040.00</b></li> <li><input checked="" type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO ..... <b>\$890.00</b></li> <li><input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO ..... <b>\$740.00</b></li> <li><input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) ..... <b>\$710.00</b></li> <li><input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) ..... <b>\$100.00</b></li> </ul>														
<b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b>		<b>\$890.00</b>												
Surcharge of <b>\$130.00</b> for furnishing the oath or declaration later than months from the earliest claimed priority date (37 CFR 1.492 (e)).		<input type="checkbox"/> 20 <input type="checkbox"/> 30 <b>\$0.00</b>												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">CLAIMS</th> <th style="width: 25%;">NUMBER FILED</th> <th style="width: 25%;">NUMBER EXTRA</th> <th style="width: 25%;">RATE</th> </tr> </thead> <tbody> <tr> <td>Total claims</td> <td>33 - 20 =</td> <td>13</td> <td>x \$18.00    <b>\$234.00</b></td> </tr> <tr> <td>Independent claims</td> <td>1 - 3 =</td> <td>0</td> <td>x \$84.00    <b>\$0.00</b></td> </tr> </tbody> </table>		CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	Total claims	33 - 20 =	13	x \$18.00 <b>\$234.00</b>	Independent claims	1 - 3 =	0	x \$84.00 <b>\$0.00</b>	<b>\$0.00</b>
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE											
Total claims	33 - 20 =	13	x \$18.00 <b>\$234.00</b>											
Independent claims	1 - 3 =	0	x \$84.00 <b>\$0.00</b>											
<b>Multiple Dependent Claims (check if applicable).</b>		<input type="checkbox"/> <b>\$0.00</b>												
<b>TOTAL OF ABOVE CALCULATIONS =</b>		<b>\$1,124.00</b>												
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27). The fees indicated above are reduced by 1/2.		<b>\$562.00</b>												
<b>SUBTOTAL =</b>		<b>\$562.00</b>												
Processing fee of <b>\$130.00</b> for furnishing the English translation later than months from the earliest claimed priority date (37 CFR 1.492 (f)).		<input type="checkbox"/> 20 <input type="checkbox"/> 30    + <b>\$0.00</b>												
<b>TOTAL NATIONAL FEE =</b>		<b>\$562.00</b>												
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable).		<input type="checkbox"/> <b>\$0.00</b>												
<b>TOTAL FEES ENCLOSED =</b>		<b>\$562.00</b>												
		<b>Amount to be: refunded</b> <b>\$</b> <b>charged</b> <b>\$</b>												
<p>a. <input type="checkbox"/> A check in the amount of _____ to cover the above fees is enclosed.</p> <p>b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>01-2218</u> in the amount of <u><b>\$562.00</b></u> to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>01-2218</u> A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p>														
<p><b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to review (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.</p>														
<p><b>SEND ALL CORRESPONDENCE TO:</b></p> <p>Francis A. Cooch, Esq. Office of Patent Counsel The Johns Hopkins University Applied Physics Laboratory 11100 Johns Hopkins Road Laurel, MD 20723-6099</p>														
 <b>SIGNATURE</b>														
<p><b>Francis A. Cooch</b></p> <p><b>NAME</b></p> <p><b>31,495</b></p> <p><b>REGISTRATION NUMBER</b></p> <p><b>February 27, 2002</b></p> <p><b>DATE</b></p>														

10/069894  
JC19 Rec'd PCT 0 27 FEB 2002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE (RO/US)

JHU/APL File No.: 1595-DARPA

In re application of: McLoughlin et al.

For: PORTABLE TIME-OF-FLIGHT MASS SPECTROMETER SYSTEM

Assistant Commissioner for Patents  
Box PCT  
Washington, D. C. 20231

EXPRESS MAIL CERTIFICATE

"Express Mail" label number EL685549429US

Date of Deposit: February 27, 2002

I hereby certify that the following attached international application as identified above consisting of:

1. Postcard receipt
2. Transmittal Letter to the U.S. Designated/Elected Office (2 pp.) (in dupl.)
3. Declaration and Power of Attorney (5 pp.)

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Assistant Commissioner for Patents, Box PCT, Washington, D.C. 20231.

/eabl

Francis A. Cooch  
Francis A. Cooch